JH RE:



QUINCY, ILLINOIS

DEPOSITION OF MITHESS, produced, sworn and examined

on the fin day of March, 1990, between the hours of eight o'clock in the Afternoon of that day, at the offices of Federal Courthouse, in the City of Ma. Doels, before Jeanne M. Morgan a Certified Shorthand Deporter and Motary Public, within and for the County of St. Louis, State of Missouri, taken on behalf of the U.S. EPA.

APPEARANCES:

For PMA Stuart P. Hersh
230 S. Dearborn Street
Chicago, TL 60504

For Vieneus Armstrong, Teasdate, etc.
One Metropolitan Square
St. Louis, MO 63102
By: Douglas Sprong

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MECHODAS TURGATE

of lawful age, being first duly sworn to tell the truth the whole truth, and nothing but the truth, deposes and says on behalf of the FPA on follows:

DIRECT CHARITUMTION

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IR. HERSH: We are on the record. Should we utipulate to the certification of the swearing in of the witness and cealing of the deposition?

HR. SPRONG: Yes.

MR. MERSH: Did you want your client to sign the super tion, review it and sign?

HR. SPROUG: Do you want to read through it?

THE TURBUR Only we'll do that. I will ask that the court reporter send the draft to your office or directly to --

MR. SIROMS: Send it to me. That's fine.

(Ty Mr. Hersh) And then you will review it, comment, and sign. This is the deposition of Mr. Nick Tungate, taken pursuant to notice and authority under Cercla, Comprehensive Response Compensation and Liability Act as amended by Sara, the Superfund Amendments and Reauthorization Act. My name is Stuart Hersh, I'm an attorney for U.S. EPA. With me is Walter Nied, who is RPM on the Quincy Drum site --

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We are here for the purpose of asking questions regarding disposal practices at Quincy Drum site as well as questions, particularly during the year 1986 as well regarding the generation and transportation of wastes to the Outhor Drum Lite. The questions asked are to be answered with your personal knowledge as well as any document you have browledge of peremining to the question. If you do not hear a question, say to and I'll repeat it. If you do not understand a quelition, bay to and I'll try to rephrase it. Is you realize that you've given an answer earlier in the dancursion which was inaccurate or incomplete, say that you while to correct it to amend it to add to it, to supplement it and you will be blicwed to do no. If you want to stop to use the rearroom, to cool off because it's so warm in here, to det a cup of coffee or glass of water, to coffeet your thoughts, to streeth your legs. Just say so, we'll take a break. If you find that you're tired, confused, you want to take a unort break let me know and I'll take a recess. you do not know or do not remember the information necessary to answer a question, say so. If you answer the question, I will assume that you have heard it, that you understand it, and that you have given me your best recollection of the answer. Do you understand the instructions that I've given you?

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A Yes.

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Q Your answers to the questions are to be complete

to the point of your knowledge. If there is a document or other material which may refresh your recollection, please identify the document or material. Have you ever given a deposition regarding wastes in the Hississippi River?

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On the good of the Garding Tayview Bridge project?

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Too are to testify truthfully to the best of your specific as if you are testifying in a court of law. In order to assist the reporter, I ask that you not nod your head or provide other nonverbal responses. Take the time to answer questions carefully and thoughtfully. And if you have any questions for me, please interrupt me and ask me whatever the situation may be. To you understand all of these instructions?

Tes, I do. The initials that you gave him, what uses that stand for?

MR. NIED: I'm the on-site coordinator and I octually retrieved the drums last October from the bottom. I do the underwater work for region 5.

THE ULTHESS: Okay.

MR. MIED: On-site coordinator under emergency

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response.
               (Py Mr. Bersh) CSC being on-site coordinator.
         Q
               " understand.
         is
         \mathbf{O}
               Mourd you prease state your name for record?
         7 im Hicholan Clark Tungate.
         \circ
               Ther in your pirchaste?
           0-17-30.
         : :
             - And where do you presently reside?
         th St. Peters, at 778 Old Mighway 79, St. Peters,
    Product.
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         \hat{\mathbf{C}}
            930 long have you lived at that address?
         A Approximately 25 years.
              Do you have any plant in the near future to move
14
    trom that address?
15
         \Lambda
               What is your educational background?
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         2
17
         Z<sub>2</sub>
              Migh school and some classes in excess of that.
10
         0 What type of clauses?
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         £
              Hanagement clauses, technical classes.
              Henagement with regard to?
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         Q
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               Continuation management and those classes would
         Λ
23
   have been taken at UNSL and Florissant Valley.
23
               What is your Social Security number?
         Q
              490-36-8736.
24
         Α
25
               And for the record, are you represented by counsel
         0
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2	today?	
2	A	You, I am.
3	Q	The would that be?
	Λ	Mr. Doug Sprong with Armstrong and Teasdale.
4	7.	Did you do anything to prepare for this deposition
	១០៤ស្នះ	
-	2.	We had a meeting yesterday where we discussed with
	our action	neve for I don't know now long it lasted 30 or 40
:	minurel.	
1.0		IR. OPROMO: Thereabouts.
3 =		THE WEEPERS: We discussed the upcoming
2:	Gepullero	n.
13	?	(Dy Hr. Hersh) Pave you looked at any documents?
1.4	ā	No.
1-	2	Did you bring any documents with you today?
10	: .	To, 1 dian't.
17	J.	Did you do anything eise to prepare for this
18	depositio	n?
19		No.
20	Ö	Nave you talked to anyone else?
21	ħ	Conversation that I've had in regards to the
22	Ouincy br	idge if this is what we're talking about, have
23	been just	verbal conversations by phone to different members
24	of our co	mpany answering their questions, which was pretty
25	straight	forward, simple stuff. Gee, did we drop any barrels

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1	in the bri	dge or not.								
2	Q	Who did you task to?								
3	Λ	Tim McCarthy.								
4	0	Anyone else?								
5	is	Bill Mach. Those are the two people.								
	2	There was no one clae?								
7	Ą	Dudept for the discussion we had yesterday.								
	0	Are you prosently employed?								
;	;	Notice To the								
3.0	Ĉ.	Unere are you employed?								
13		"'m utill employed by McCarthy Brothers								
1.5	Construction.									
2.5	2	Tow rong have you been employed there?								
14	Γ.	Approximately 23 or 24 years.								
15	J.	And what's your position?								
10	3	I'm project manager.								
17	Q	And what do you do as project manager?								
16	ā	You're acking the definition of project manager?								
15	Õ	Yet.								
20	A	It's very difficult to give you because on								
21	different	jobs require different levels of effort.								
22	Generally,	I'm in charge of overall coordination of the								
23	project.									
24	Q	Okay. How long have you been a project manager								
25	for McCart	hy Brothers?								

- A 1982 approximately.
- Q And before that what was your position?
- A Superintendent.

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- Q For projects or for -- what does that entail?
- Merc called superintendents, as the jobs increase in need or side of jobs increase or for more people on the job then the citie change to project manager. Today a project manager is while a position. The superintendent was 10 years ago, but now be has more people working under him and you have people called superintendents. That is a step down.
 - Q Would a deputy -- is that what they are?
- A superintendent is a step below a project manager at this state.
 - 6 You long were you a superintendent?
- A Probably since 1960, '55 or '60, in that approximate area.
- Q Are you femiliar with what was has become known as Quincy Drum Site?
- A Just through information I've received from our office and I read an article on something about muscle divers, probably in the paper, and I forget exactly when that was.
- Q What is your understanding of what the Quincy Drum
 25 Site means, what is it?

A As I understand it, there's apparently some											
chemicals underwater that somebody is investigating to see											
what chemicals there are and who deposited them.											
Q Are you familiar with the Quincy Bayview Bridge											
Project?											
L. Ye											
O When did that occur?											
11 1964, it started in 1984 and ended in I wasn't	_										
on the job at the end, it ended in 1907.											
Q Suriom '04 to '07?											
A Right. That's correct.											
O And when you were employed on that project, what											
was your pagetion?											
A T was project manager.											
o Por the entire time period?											
A for the time period that I was there.											
Q When was that?											
A . From approximately June, July of 1984 through											
December of 1986.											
Q What was the project purpose?											
A It was to build a bridge to connect Hissouri and											
Illinois for highway traffic. I forget the name of the											
highway number, but the name of new bridge was Quincy Dayvie	ew										

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Bridge.

Q And it was adjacent to the Quincy Hemorial Highway

Bridge?

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- A Yeu, it was north of that.
- Q What were your responsibilities specifically on that project?
- A. We built -- the superstructure was by prior contractors, and had it out of the water by 10 feet and we took it from that point. The superstructure then would be the completion of that portion of the bridge. We built approximately 1800 foot of cable state bridge and about 400 foot or appreach ramps and joined to these what a prior contractor had already installed, connected those portions.
 - Ond you do anything close on that project?
 - A That's the essence of the job.
 - O Tho did you report to?
- To two people. Originally, it was Tom McCarthy and approximately bin months after the project started it would have been Bill Main.
 - O And who reported to you, everyone on the site?
 - A Yes, all supervisors.
- Q And these activity to construct the Quincy Bayview Bridge, were they done under a contract?
 - A Yec.
 - Q Who was that with?
- A Department of Illinois. I mean Department of Transportation, Illinois. It was a joint venture with

Unasouri and Illinois with Department of Transportation.
With Illinois actually supervising the inspection.

- Q And when was the contract effective?
- A Mould you repeat that?
- When was the contract effective, when was it?
- A in Pebruary, I forget the exact date, but roughly Pebruary of 184.
- Q Here there any other contracts on that bridge project?
 - A The other contractors.
- O That McCarthy Brothers was involved in, let me clarify usat?
 - A What are you looking for, would you repeat that?
- Q Were there any other contracts other than the Penruary -- approximately February, I'm not trying to hold you to that specific date?
 - A No, that was the contract.
- Q In the course of activity on the Bayview Bridge project, did McCarthy Brothers company obtain chemicals, paints, and other materials or equipment for the project?
 - A Yes.

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- Q What kind of materials did they obtain?
- A We had to use -- specifically you mentioned paint,

 Joanna Painting Company supplied and painted the structure,

 they were a subcontractor.

- Were there any other materials, chemicals? () There was a material that we purchased to connect Λ the pre-cast panels on top of the structure, it was --Unar was that material? \circ It was an epoxy adhesive. 7. Do you have a name for it? Yes, I believe it's -- do you mine if I look? (: I'm cure it's the Concressive material. Concretive that was used to connect the panels .7. 10 together on the ctructure. 11 Any other materials? .7 There was epoxy paint that was used to paint the 1.3 Α 13 tilet and part of the readway clabs, two-part type of paint. 14 Q What are the names? Pann Seal and the other was Metacore. Metacote 15 7 was parmer and Penn Seci was top coat. 10 17 Any other materials? Q Well, there was curing compounds that you use for 14 curing your concrete when you strip your forms. 13 20 And does that have a name or chemical description? The name of the material right now -- well, I can 21 .7 22 guess. Concrete curing compounds are very common and I really -- there are so many sources of them. I believe we 23
 - Q Here there any other materials?

bought Sealtight material curing compound.

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There was -- we bought two chemicals that we had intended to use to clean epoxy covered tools, and that was methylene chicaide and trichloreothane. And you stated that you intended to use? Teb. That do you mean by teat? Ü. That means that we never used them. What did you use to clean the epoxy? He threw the tools away. We had originally figures on opraying the materials. And we changed to using college and pane and at the end of the day just pitching them in the dumpoters. Co, instabley you had used other tools that you Ω were going to try and cream? That was the intention at one time. A Was there any initial efforts to clean tools and then late: -- Λ Ho. So there drums were complete and full? Ü A Right, they were full. MR. HIED: As far as excess, I'm talking about

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MR. MIED: As far as excess, I'm talking about access when they applied it whether or not did you remove that with tools or did you remove that mechanically?

THE WITHESS: Remove what, sir?

HR. HIDD: Well, wasn't your epoxy used to

bond concrete curiaces, correct?

THE WITHESS: No, it was used as a paint. As a layman, you would say it was used as paint and protective soal on top of the concrete.

- Q (By hr. Perch) We're talking about two different openion. For the record, then Sanders, who's representing the state of Tilinois Department of Conservation has just entered the room and will be sitting in on this deposition of the Tungate. The question T think is hard to understand simply because there are two sets of eponies. As I understand it, there is epony adhesive and epony paint?
 - That's correct.
- Q With regard to the openy adhesive, was there scenning materials?
 - A 115.

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- Q Now was the material applied?
 - A It was applied with rubber gloves.
 - Q And was there any other way of applying it?
- A There may be. We used rubber gloves.
- Q The entire time during the project?
- 21 A Right.
 - Q And with regard to the epoxy paints, the Penn Seal and Netacote, what was the method of application?
- A That was applied with use of a roller and a pan

 25 like you would normally see in a household except ours were

two foot wide in lieu of normal nine inches.

- Q Nac that the only method that was utilized on the Bayview Bildge project?
 - A That's correct.
 - O There was no other method?
 - A C.

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O Does that answer your question?

HR. HTED:: Can I have one follow-up? I understand the difference --

Q Off the record.

(Le this time an off-the-record discussion was had)

MR. MERSH: Back on the record and we are now going to continue our discussions of the concressive epoxy cohesive. At this point, since we are addressing some very particular technical questions, I will ask that Mr. Mied ask the cuestions.

That were to be bonded together with the epoxy, when that was actually connected and there was excess at those joints, how was that removed?

THE WITNESS: Okay. The standard way was to use a wood wedge, scrape it off, put it back into the pot that you mixed it in.

MR. NIED: Any residual remaining after the wedge?

THE WITHESS: The residuals that were remaining would be covered with black top.

HR. HED: So there wasn't any need to remove that with solvents?

THE WITHESS: No. No need to use solvents.

MR. MIDD:: So, no concern over the asphalt bonding to than hurbace?

THE WETHESS: No.

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- () (No Me. Mersh) Were there any other materials?
- A you're asking me a question -- in construction everything has get chemicals in it, you know. So you're asking me a general question that you could really get into, but then you're talking about these kinds of materials you're talking about the cutent that we're at now as far as my anowiedge is.
- Q Could you just give us a brief list the other chemicals then that you think are out there?
- A Me would bey the curing compounds would be a major bource of chemicals, the epoxy concressive would have been a major source of materials, and the Penn Seal and Metacote would have been major source of materials.
- Q I'm not talking in materials of volumes, I'm talking in terms of what are the catagories of materials?
- A Fuel oil that was stored on site, motor oil that was stored on the site. And you can talk about gasoline that

was stored on the cite. Here there other solvents? Q Not to my knowledge. Q. Organic chemicals? Emcept we already tasked about paint. Other than what we talked about? To my knowledge, there were none. More there any chemicals that were flammable that wale on the city. Me named out and gasoline. 10 7. Any others? 11 That would have been it. Here there any chemicals that were corrosive? 13 In excess of what we already talked about, not 14 that "'m aware of. Were there any chemicals that are considered to be 20 hazardous or tollic beyond those that we talked about already? 17 Not that I'm aware of, no. 18 7. Where were these materials stored? 13 0 20 Which materials. Δ 21 The chemicals that we've been talking about? C They were stored in different areas. Just name 22 Λ which one you want to talk about and I'll tell you. 23 How many different storage areas were there? 24 There was two. One is the land site and the 25 A

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barge. Heat of the materials were stored -- storage was on land generally above the shear wall near the public access ramp.

- And that's for both storage areas or does that describe one of the storage areas?
- Our construction limits -- we were confined when we started this project. We were confined to only the areas where the shear wall wee. We couldn't get any lower areas. We were confined to the upper level. We were approximately 13 to 14 dect above flood stage where our office and all that was. Our storage orea was very small.
- And about approximately how far above flood stage wase the storage aseas?
 - The same. They were all up above the shear walls. ,
- Could you, so I can better understand this, could you draw a map of the bridge area that you remember from the 1986 time period and include as many --
- 7 forget the name of the road, but I believe it A was Main Street. And there was a river road and public access ramp. There was a park here that we managed to rent that had a sheet pile shear wall driven and the top of the wall was again approximately 10 or 12, maybe 13 feet above normal river level. This area ran in this direction, returned back like this and then it dropped off. This was a high area, our fence around the project run down the side of

this side to the edge of the river, to the edge of the shear wall.

- Q Hark the river. And mark -- you were saying this was an access road?
- A Right. This is our entrance into the job site:
 Unlough a set of gates, but any way that's the gates.
- O Could you put gated and access road. And you've marked on there a fence, public access road, and marked ravec?
 - Threed to mark another set of gates there.
 - You've marked river to be the Mississippi River?
 - A Right, this is the Mississippi.
- Q Can you indicate where north, south, east, and west?
 - A River flows south.

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- O Mourd you indicate where the staging areas are?
- The office trailer was near -- the office area was right about here. We had two office trailers mounted wide-by-wide. I widn't allow enough room. There was a security box parked here, there is highest ground on the project right in through here and this was the trailer parked here, and trailer parked here. This roadway went around it like this roadway.
 - Q That's the road?
 - A That's our construction roadway. We come into the

job site this way. Storage was here and here, and this was generally kept so we could back concrete trucks to our barges.

- Q So it's clear, in red, mark on there which ones on the stolage areas?
 - A Till do it with a circle.

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UR. NIDD: Would you also mark on there the location of the Hemorial Bridge as well as Bay Bridge?

THE WITHES: Well, it's not to scale, but the Memorial Broage is down here and our structure is up here, Dayview.

MR. OPROMS: Maybe we can put the mileage on there so we can tell now far downstream it is. Do you recall?

THE WITHERS: I have to make a guess, but the Hemogral Dirage was --

HR. MIED:: We don't need that.

THE WITHESS: It's only maybe a quarter of a mile if it's that far from here. You're talking about 1500 or 1800 feet. I'm not sure, say 1500 feet.

- Q (By Br. Hersh) That's between the public access road and Hemorial Bayview Bridge?
- A And this was approximately same, about 1500 feet so the bridge that we built give or take.
 - Q And that's an accurate representation of the

project site in 1986?

- A That's as well as I can make it without getting a scale drawing and start detailing it.
 - Q I'm going to ask the reporter mark this.
- A I would like to mark storage area right behind our office.
- One map, as I look at it now, indicates there is a storage area in the southwest, northwest and eastern portions of the site?
 - A That's correct.

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- Q With regard to the northwest site, northwest storage area, what materials were stored?
- Matterials, theel materials, and materials that were going to be used directly would be moved to that area maybe set there for two or three days, might even sit for a week prior to being placed on the barge, but they would have been moved from the back of the area to the front near the shear wall, or moved from this area back into here, or back into this point.
- Q When you say this area so the record understands what you're saying, you're saying moving from the southwestern storage area to northwestern?
- A Generally, the area where you try to move directly forward closer to the shear wall so you don't have to reach

so far out with our cranes to pick them up. Was there anything else in the northwestern 0 storage area, any other materials? Construction, you would find pieces of form, you would lind some steel. Mare there paints, solvents? 110. 3 Fuci onlo? No, not there, not in the northwest. 10 With regard to the southwest storage area, what \circ 11 wall contained in that area? Southwest corner was generally the oils, the fuel 13 oill, the quactine, the curing compounds and that's it. The paints? 14) 15 The paints were not stored there, no. 7. 14 With regard to the west -- I'm sorry, the eastern 17 utbrage area behind the office, what was located there? Two drums located there, that was the material 13 13 that we had purchased to -- originally purchased to cut 20 epoxica and they were kept there. 21 What did those drums contain? Ω 2:2 The chemicals right now -- I can pick it up off Λ 23 this --MR. SPROMG: He's talking methylene chloride 24

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and trichloroethane.

	Q	(By	mr.	Hersh)	Uhere	were	the	Metacote	and	Penn
Seal	Storec	?								

- A Originally, when they come in, they were stored back in this area, the first delivery.
- Q And so the record is clear, he is referring to a pencil mark on the northern wall of the site.
- There was a trailer, electrical trailer setting here and these were atored right in here electricians' trailer, a small electricians' trailer and they were stored behing it.
- Q Were there any other locations where those types of materials were stored?
 - A not during the course of time I was there.
- Were there any other materials stored along the Lite that has not been indicated?
 - A Yea, there were.

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- Q What materials and where were they?
- A Muts, bolts, 50-gallon drums that we would use for trash collection and 50-gallon drums that we would hoist our material to the deck with empty 50-gallon drums, and we pick up with a special lifting device and hoist them up to the top wherever we needed them.
 - Q No other liquid materials?
 - A No, sir.
 - Q Were there any other markers that would help you

identify the --

I've not identified the paint area, which was back up underneath the new Bayview Bridge up near the railroad tracks right prior to the railroad tracks. In other words, east of the railroad tracks where we alrowed the Joanna Paint to put their trailer and they kept their paint materials within that tittler.

- Occurs you draw us a second exhibit here with that bridge and that location?
- A Like I say, that would have been approximately 500 to 1000 rest from this particular area.
- Q When you say from this particular area, you mean from the north wall of the fence?
- A Yea, generally. You're going upstream. That would be correct. Here is Bayview Bridge again, prior contractor had built a portion of the structure and eventually wound up touching ground here. The ground grade here sloped behind here and there was a set of railroad tracks right through here. And that trailer was parked up here out of the way. There was a little road that came in here that allowed them to get to the trailer.
- Q Could you indicate on there by naming the different roads, the bridge, the railroad tracks?
 - A I forget -- I'm going to call it the river road.

The closest read to the river is the one I'm drawing here, public road. Q And the river is located just beyond that? Quite a ways from it, it was quite a ways up the bank. We tried to get on the highest ground that was avoisable to us with all the equipment as you can imagine. This would have been the painters' trailer. And could you also indicate where those drums were utored? 10 Within the trailer. 1.3 And you indicate on there, I think, you stated where the river it? 13 Σ Mere's the river. 14 And I believe you also were indicating that this utructure was nere? 10 Right, this is Bayview Bridge. $\mathcal{D}_{\mathbf{k}}$ 17 Q Approximately how high above the water level is 14 the paint trailer? 13 7'd be speculating, but I would say approximately λ 20 10 feet, 15 feet above normal river level. 21

- Q You had talked about a wall in Exhibit A, was there a similar type of wall located here?
- A Wo, just a normal river bank.

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Q And that's your best recollection of what the site looked like in 1986?

Λ	Well, I could get into a lot more detail here. I									
can tell y	ou that's the way it was.									
Q	Reasonable representation?									
Ā	There was a small sheet pile wall here, that was									
approminat	esy 30 inches above river stage, it was used by a									
Subcontiac	tor prior to un showing up there.									
2	I'm going to ask to have this marked as Exhibit B.									
Ģ	Tou indicated with regard to Exhibit B, that the									
drums were	stored within the paint in the paint trailer?									
3	Correct.									
2	Here there any solvents stored in there as well?									
73	I'm not care.									
Q	Do you know now many drums were stored in the									
tratier?										
7.	An he was using the paint he would move more in.									
My one loca	t into the trailer there was probably five drums in									
it to look	•									
Q	Where would be have been moving them in from?									
Δ	Trucking them in from I don't know where, and									
unloading	them into that van.									
Q	Who was the person in charge of the trailer?									
A	You would have to go to Joanna and find out who									

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that foreman was. I may be able to go back into the records.

24 We don't normally track the foreman's name.

Who was the company?

- A Joanna had the contract and they subbed their work out to a Sherfield Painting Company. That needs to be clarified. I think that's it.
 - Q You can only testify to your recollection.
 - A Yes.

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MR. MIND: No external storage?

THE GIFGES: No. It was too risky with the was. You got to contain that stuff, no.

MR. SPROMM: Off the record.

(No this time on off-the-record discussion was had)

- (By Mr. Meren) We were taking a moment to determine the meaning of external atorage. It is apparent from our discussion that everyone understands that external atorage means outside of the trailer and that the question are answered appropriately. More the paint materials ever brought to the area designated in Exhibit A?
 - A Tes.
 - Q Where were they praced there?
- They would be placed on a barge directly.

 Directly onto the barge, taken to the area of painting and raised up by crane to the deck and then painting would commence at that point.
- Q Perhaps I'm not clear. When I said were paint materials ever taken from or taken to the area designated in Exhibit A --

- A This is where the barge always landed right here.
- Q So, you had to move paint material from the paint trailer to the area designated in Exhibit A and then from there to a barge? Could you please answer on the record?
- A Yea, but I've got to tell you during the course of the job this didn't happen very long. As soon as we were land bound, the naterials were driven to the deck by the painter in his truck.
- D Dan there any temporary storage for those paint materials within the fenced in area designated in Exhibit A?
 - A No.

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- Of They went straight from the painter's truck to the pares?
 - night.
 - O That about for solvents?
- Those were usually carried. I guess Tive got to stop for a second.
 - (At this time a chort break was taken)
- O (By Ur. Mersh) We're back on the record and Ur.

 Tungate is going to go on and explain the mixes of the paint
 prior to application.
- A We felt like the application of paint or allowing them to mix paint on top of the structure would damage or screw up the looks of the structure. So we insisted that the painter mix his paints at his trailer, and carry them. To

min them in small quantities and only take up what he was going to use for the day. If he ran out during the day he got back on the barge of drove off the bridge and mixed some more and prought it back up. We don't have any storage facility on the structure. The only time he moved from his storage also to what you called storage area A --

- O Exhibit A Southwestern area?
- To what you call Exhibit A was during the course of the year near he had to mount our barge to take the material out and generally that was carried in five gallons can capped.
- Of them you cay he was mining the paint, what was he mining?
- The would get the consistency that he wanted by adding colvents. That was those convents were in the five gallon equate parts.
 - Q What kind of solvent, do you know?
 - A I don't know.

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- O And do you know who might know or who would know?
- A I'm sure the painter.
 - O Anybody else?
- A Not likely because there is different solvents, you can buy so many different solvents that will cut the same materials, that we wouldn't go into that.
 - Q When you talk solvents you mean organic chemicals?

A Paint thinner.

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- Q Where was the trash and empty containers stored?
- A Originally, they were -- we always kept one in the the office area that would take care of anything that was collected near the office. Another one was kept on the barge and when we're able to drive -- and that one on the barge was normally raised to the deck. We have had a cituation where we had one at office, near the office trailer, one on the barge, and two on the deck, which they would be hoisted off and per on the barge and taken in for pick up.
- Inon the drum, what happened to the orum?
- A They were placed in the convainers and hauled off, in the trail containers.
- O When you say track containers are you talking about --
- A barge construction type boxes, furnished by BPT up in that area.
 - 0 Were the drums cleaned prior to disposar?
 - A I don't think so.
- Q Was there a segregation of wastes, trash waste versus other type of chemical wastes?
 - A Well, no, there was very little waste.
- MR. MIED: Just as a clarification, in other words, you had an empty 55 from Concressive, as oson as that

was empty you would simply place it in the dumpster.

UR. SPRONG: I don't think the concressive ever came in 55 gailon drums.

THE WITHESS: That's correct. It never came in 55 gallon Grams.

MR. MIED: What Dise?

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THE WITHLES: Originally, we got them in 15 and reduced time almost immediately.

UR. MIED: Let me rephrase that. Other products that were delivered in 55 gallon drums, which you did have your Penn Sear as well as Netacote, right?

THE METHOSS: Yes.

MR. MEED: When they were empty, they were camply praced in the dumpater and Browning-Ferris houled it off?

THE WITHESS: Yes.

- Q (By Mr. Merch) The concressive or other materials that were not in 55 gallon arums?
- A That usually set itself up like a rock very, very quickly.
- Q What about solvents, were they in smaller containers than 55 gallon drums?
 - A We didn't use solvents.
- Q I thought -- excuse me, but maybe -- was there mixing of paints?

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So 3	T I	n abb	umin	g he	had	50	ga⊥1	on o	drums	or	somet	hing	g by	his	
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- 9 You mean a 50 gallon drum of solvents?
- A Pethaps. I want to correct myself.
- Q Go right anead?

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- A He aid not have 55 gallon drums worth of solvents. Him solvents were -- the one time I looked in the trailer were these square tin pails and they were maybe -- when I tooked in the trailer he had 10. So that was the way he was deliveling the solvent.
- And do you know what happened to those pails when those were used, did they go into the trash containers and get hauled away or were they rinsed?
 - A I believe he took them with him when he left.
 - O When were these different staging areas built?
- A Timmediately upon arriving to the job. What you call the west staging area --
 - O The southwest or northwest?
 - This particular stage area right here.
 - Q You're referring to the southwest staging area?
- A That was built, fences up, before we received any a materials.

Q And what about the staging area in the northwest on Exhibit A?

A That's the same situation. You've got to remember this is small area so we fenced it and had it all prepped palos to reserving any materials, the whole area.

- The that goes for all of the storage areas including the storage area behind the office?
 - A That's correct.
- And they were used as staging areas throughout the entire project?
 - A You, they were.
 - The was there anybody in particular who was in charge of maintaining the sporage areas?
 - a Yeu.

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- 1 Who would that be?
- 1 Let't stop for a minute.

(At this time a phort break was had)

- (By H.. Hersh) We're back on the record and we've just taken a short break to go to the bathroom, get drinks, and retain a fittle bit. We're going to go back to the last question which was who was responsible for maintaining the storage areas?
- A That's the reason I vanted to take a break was to think that over. The area was very small and had to be continually monitored for location of drums so you can even

COMPUTER-AIDED TRANSCRIPTION

get through there. There was ongoing things and usually done by our labor roreman and/or one of his laborers to make sure it was contained and materials were convained.

- O Mho was that?
- I Mabor foreman was Steve comebody.
- Of House anything heap refreen your recollection?
- A 'U have to go look at some time sheets.
- Q The wouldn't be one or the people listed on the intermation request showers?

III. "PROMO: I don't think Lo.

THE WITTUED: He was not a McCarthy person that was transferred to Caincy. To was nired up in Quincy from a Union Half up there and was one or the workers. And if you're looking for his none I would have to look at some time sheets.

- gares? (By Mr. Mersh.) Okay. Mad there a sock on the
- A. You.
 - 0 Was there a guard at the site?
- 20 h 115.

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- 21 0 Were there signs at the site?
- 22 A Yes.
- 23 Q What did those signs say?
- A We had a sign that said CTL entrance, McCarthy

 entrance, construction entrance, typical construction sign,

keep out, hazard type warning systems, hard hats only, and the name of the project.

- Q You had stated earlier on that there was purchase of some barrels of material, do you know who the supplier was?
 - A Dairett of materials, what materials?
 - C The paints, was it D.G. Robbins?
 - A I don't know.

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- O Door had Finner supply?
- A section not handle painters' materials, no.
- O What old Dob Fisher supply for McCarthy Brothers as the Lite?
- The helphiled rorming materials, nuts, bolts, wall viel, he supplied -- I think, I believe he supplied --
- O Set the record reflect that Mr. Tungate is convening the information request answers supplied by Medarthy Drothers Company in Movember of 1989 dated November 20th, 1995.

IR. CPRONG: 1'd like the record to also show he's got the request letter, but there was some attachments to the letter that I don't believe you have, some NSDS sheets and product data sheets. I don't believe you have copies of those.

THE WITHESS: No. I have nothing but the letter.

MR. SPROUG: Which I had that we included those with the letter. (Ey Hr. Persh) To the Agency? 0 For some reason I can't find this. Are you familier with Superior Solvents and \circ On Maidul Company? Superior Chemicals, I have to know -- that name doesn't necessarily ring a belt because Superior handles so many different chemicars and convents and so forth. Men did pointing on the Bayview Bridge project begin, cpp.chimage.y? A To would be approximately in 1985. And when did use of -- and I assume when I say pointing that you meth Mctacote and Penn Scal? A - No, I thought you were talking about the Joanna Painting Company. That's what I thought you were referring to. 2 Tim sorry. Who was responsible for the Natacote and Penn Scal? A HcCarthy applied that. And where was that stored? 0 That was stored in the same areas that I've Λ

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indicated here.

Q Looking at Exhibit A, which storage area is that?

A We've only indicated one storage age area right

now except for the painting materials for the painters. But in the first Exhibit you've got here that was our storage area and that's where the Penn Seal was stored and Metacote.

- O I guess I'm a little confused. With regard to Thhibre A, is that southwest?
 - A That would be southwest McCartny site, yes.
- And approximately now many drums of Penn Seal and Metadote were stored at any time in that location?
- the field two deriveries of this material. We had one univery probably in '85, I'm going to say probably. I'm trying to neip you here, which was for the tire legs that was purposed rires and then become derivery in '86 for the deck motion or the clap where we applied in to the clab portions.
 - O Approximately when in '86?
- this and look it up and probably be able to tell you.
- O And by that you mean you're referring to the answers to information request in 1989?
- A Right. This doesn't tell me the date of purchase for the second set, but it would have been in '86.
 - O Mind, early, late?
 - Λ Mid '65.

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Q Approximately how many barrels were remaining in the southwest corner of the fenced in portion on Exhibit A as is shown by Exhibit A? How many were remaining at the time

that there was a flood in the Mississippi River in 1986, October of 1986?

- A % don't recall.
- Q Can you give an estimate?
- A I can give you an estimate of approximately two Pana Seals and four Netacotes.
- C That's the total number of drums located in the Louthwell corner?
- That's not quite time. That's the normal storage area. When the river is coming up those materials are moved back. In you come off the see wall itself and you climb back towards the trailer the ground picks up in grade. In the '86 migh water those oruns were moved back to the higher ground, which we tried to place sometimes outside of the trailer next to the lattroad track area depending on what the water stages were going to be. Trying to get it up out of the water area. The highest ground was the trailer. We were never flooded out at the trailer. Sometimes we had water at one time approximately a foot over the top of the wall.
- Q Let's back up a little bit. How many drums of Penn Seal and Metacote were used for the project approximately?
 - A I don't know.

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- Q Would it surprise you if it was 300?
- A Drums, no way, no, sir, that's not possible.

Q Would it be 100?

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- A Twould have to start speculating. I don't know how to answer that question. I could be far off.
- Q Hould it be 300 gallons, would that bound more readonable?
- A "es, of you're tasking -- that would sound more reasonable 300 to maybe 600 gailons.
- On the looking at the response dated November 20th, Mind, on page four item number 12, second paragraph indicates I'm colly, brist paragraph indicates approximately 200 gallons of Managraph and 360 gallons of Penn Sect 50 in 50 gallon arous?
 - A Phat's bounds right. That's very close.
- O So approximately four drums of the Metacote and approximately seven drums of the Fonn Seal?
 - A Year, that sounds approximately correct.
- 2 And now many drums or how many gallons would have been applied, you indicated there were two portions being?
- The decks would have taken approximately -- I'm trying to be helpful -- the deck work would have taken approximately two-thirds of the materials. One-third of the material would have been on tire legs, approximately.
 - Q And you had finished the tire legs in 1986?
- A They would have been finished, yes. They would have been finished in 1986, except for the portion above the

deck blab, which would have been done at the same time. The epoxy materials beart at 10 foot above the water line and run up to the bottom of the substructure. And we had coated that area and then when we applied the epoxy to the sides of the blab, painted she cides of the blabs. At that time we correct it up to the rest of the way, which was, I think, 10 or 18 -- 7 can't be held on this, 10 or 15 feet above the new roadway blab.

- Q Were those materials, the Penn Seal and Metacote, wile they even wined with anything?
- 11 7. 75.

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- They were applied direct from the container?
- 13 A Year, they were poured into a pan we tarked about 24 with pain roller.
- 25 C So they weren't thinned?
- 16 h
 - Q It it reasonable them to anticipate that about two-thirds of the materials would have been within that tenced area in October of 1986?
 - A That's reasonable to assume.
 - Q Were there any -- you mentioned earlier on a gentleman by the name of Steve who would have been responsible for the storage areas?
 - A He would direct the foreman and clean it up, yes.
 - Q Did he take inventory of materials at the site?

A No.

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- Q Did he take any inventories from time to time?
- A He was rabor foreman really. We would just have him operating area to get this area cleaned up etc. etc..
 - O Did anybody take inventories?
- A Yea, it would have been Gary Winkle, and Tony DaCary, and mydelf occasionally. And that's the extent of it really.
- O mad there a regular time frame to do these inventorist a month?
- the material paying ney, we've got four drump of material name and we've does two and we only have a third of this done. Let's take a took at this. And that's the way that would have been done.
- g Inventory to have we lost anything or have -- I don't know what you mean.
- for a project and that's it. Sometimes you buy it twice which means we don't have storage site, we don't want to buy all of it at one time. And we buy one half now and need another half in six menths or whatever.
- Q Was there any particular time frame that inventories were taken?
 - A I think I've just described that.

Q It bounds as if it's haphagard?

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- It don't think so. That's not my terminology for it, but it was not haphatard. The materials were ordered and they were stored on the site. And when we started using the materials, the descuration for how much materials we need, and how for a 55 gallon drum would cover. Those are all descurated. So we buy the materials we needed and store them on time. The invintories were then conducted as we started using the nuterials to see that we were getting the square spot of coverage that we needed. And if in deed we weren't getting 200 agains feet per gallon it was only getting 100, we would reinventory and reorder.
- O So your other supervisor would come to you and say we've been using --
- A Maire going to be phort or we've got excess material or comothing.
- Q Here these ever written types or inventories? In other words, would comebody go around and say let's check and see what you've got?
- A Yes. They would be, but that piece of paper would be given to me which I would then order the materials and then as soon as it came in, as soon as we order the materials that scrap of paper would go in the garbage. We don't -- you know, the records of the materials orders and the records of materials received are certainly kept.

Q 7 Will request that you take a look at records with McCarthy Brothers and to the extent there are any inventories that they be provided to us. Was there a daily log book maintained at the site?

- Ted, there was.
- And did that also indicate inventories?

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- That who the daily bog book indicate?
- The vector, now many men were working, generally the saver stage, what we were working on, critical areas, poblem caring the day such as engineering problems -- this is a sighty engineered job and very difficult to keep field sogular far as location of steel, is the tower leaning, or what's going on. A fair construction diary, yes.
- I will also request a copy or the original of the daily log book pairticularly with regard from mid-1986 to the end of 1980 and by mid I mean June, 1980, to end of December 1986. Did the log book also maintain notes of meetings that you would have had with your supervisors?
 - A I didn't keep the log book.
 - Q Who would have kept the log book?
 - A That was kept by an surveyor.
- Q Do you have a name?
- 24 A Yes.
 - Q What would that name be?

A Ron Smith.

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- Q And is that a record of McCarthy Brothers or is that a record of his own?
- A Ho, he had good handwriting and a very sharp young man. T wasn't in the field do he kept a field diary, and that's the diary.
- O And that is not the same as log book or is that the same?
 - A That's the same.
- O Chay. Were there notes kept by anyone of meetings between you and your supervisors?
 - : 10.
- G Loving to the last or winter of 1986, was there a migh water stage, a flood during that time period?
- Musept for those notes here, there was two areas of high water earing the course of that project that was of concein. And one of them was in fall of '86. And looking at the riterature here, I'm assuming that this is the one we're talking about, which is October.
- O When you say literature, so the record understands what you're talking about, you're talking about 1989 November response by NeCarthy Brothers?
 - A And your letters, too.
 - Q Were there other floods?
 - A Yes. We had high water twice that was of any

concern.

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- Q Was anything lost during this other flood?
- A Yes. We lost some 2 m 4's and some plywood in the first one, that one come unannounced.
 - 3 When did that occur?
- In the fall of '84 or spring of '85. It was in a winter between '34 and '05, and the fall or probably in the spring. Somewhere in that area. After that one we made contrat with the lock and dam below up and communication sputemm and damed them to please advice up. And they did from their point on any time we were having any high water come we had notice. And from that point, any time we had where forecast to get into any problems we moved equipment and materials back from the vater edge to an elevation that mould have taken care of it.
 - 2 How much notice work you given?
- A debuarry 24 hours, 48 hours. We would get forecast of river stage was going to be at ~10 and we would move everything back so it's taken care of ÷10. And get phone call next morning it was going to be two foot higher, and we would try to find higher ground. That was the situation from '84 on -- or spring of '85 on.
- Q In the ficod in 1986, do you recall the month, was that October of 1986?
 - A I think, it has to be, yes.

- Q Most high did the flood water get in that flood?
- A I believe they got up over the top of the steel sheet. I'd like to confirm that, but I'm sure that's the water we're talking about that got up above the sheet pile wall up above our higher section that we had.
- O ha you have any knowledge as to -- you're saying throt our the sheet pile wall?
 - A Te'u 10 to 12 feet above normal river level.
 - C Find this food went above that?
 - I. Tea.

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- O to you know how high it crosted at?
- Throw along the edge of the wall right now -- I could realist it, but right now I know along the edge of the wall it get up to a foot or foot and a half at the low side of our wall above the top of it. It actually got up to the trailer area. So the only thing that you could walk in dry was the trailer to keep your feet dry.
- O I guess that was sitting up on a mounted type area?
- A The natural flow of the ground. It wasn't built that way. That was natural.
- Q With regard to Suhibit B, did the water get -- how high did the water get?
 - A Up to the edge of the railroad tracks.

- Q And the railroad tracks are just west of where the paint trailer is?
- A Yes. I believe there's a little swale on the east side of the railroad tracks, a little dip, and I believe it had maybe him or eight inches of water in that.
- O Nove there any other construction projects along the laver in the area that you know of?

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- Lupercriticiture. And one of the reasons we couldn't get into this area then we would preferred to have, which is right undernrach the constituction site, they had all their equiptions there. And they used that area up through October of '05. That gives me a chance to clarify something that I writed to tell you. Right at the end of October, Jones moved out the allowed us to start using the lover area. This is the storage site up until about the end of October or first of Movember of '05, and then at that point we were able to use this area. They you put this together, the area between have and the attracture including 60 feet on the other side.
- O So the transcript -- when you say here the transcript doesn't mean anything.
 - A From the edge of the Exhibit A.
- Q Look at Exhibit A, the northern fence going north to the Bayview bridge structure itself?
 - And 60 feet beyond was available to NcCarthy.

- Q And did McCarthy utilize that area up to the river edge?
 - A Yes, we dia.

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- Ohat did you utilize it for?
- The stored as much materials on the barge at that point hour started landing our barge and moving form materials in and out. And operationally we started using it protty heavy, the storage facility. However, this was all metal, steel forms and etc. and because this was still the original storage area, when I self in December still anything related uses—it was near the end of the job. It went onto 100, but the major structure was done. There is no sense in moving anything down there. Most of the stuff was left here and ploked up and used as needed. But I wanted to clarify that. This is the way it was through October and then stuffing at the end of October up through the end of the project we did have this area.
- So it was brightly pefore the frood stage when you moved into this area?
 - A Slightly after, probably three weeks after.
 - Q Was Jones in there during the flood stage?
- A Yes.
- Q Do you know what materials they would have had there?
 - A Weil, they pretty well moved out. And what they

had in there was some piling and garbage, heavy steel forms and anchors and just junk. They had enough scattered around so we couldn't use the area, but that's about the extent of it.

- O At what point in the bridge construction did this October 2006 rined occur?
- Me would have been -- approximately again, had not made out those connections yet. One side of the structure, the towar in the siver on the Miccourt side would have been completed, it ructure sides Alaming would have commenced. It would have been almost complete which would have been 440 feet extraction of the tower would have been the section and stated address tower and the balance of the work.
- This Tenced area in Thisblit A, were there locks on the gate.?
 - 3 Yeu.

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- Q Who had keys to those rocks?
- A approximately six people.
- Q Who would they be?
- They would have been the supervisors, myself, and the labor foreman. During the course of that construction site we were working many hours a day and the keys got distributed by people sometimes who would make it in the next day. So we had sim keys out. We might have had 10 keys out during the course of that job. We changed locks three times

because we thought we put out too many keys and changed locks and cut down and increased again. That's typical construction.

- O Any materials lost or stolen that you know?
- A We had a break-in where someone stole radios out of the ordine.
 - Q When and that occur?
 - This was about the '86 area.
 - Q Carly, later?

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- A f don't want to give you the date because I'm not positive. But we did have a break-in. They stole about four station.
 - 0 That's a lots of radios?
- A \$1100 a piece.
 - O hav other incident like that?
- When we first started the project we had a break-in and vandatism without any sign of materials disappearing.
- Q Did you take inventories after each of those break-int?
- A Yes. The first one we thought was probably kids or something. The second one was definitely a major operation.

 But they were after mostly -- the biggest things they got was the radio and a couple power saws and that type of thing.
 - Q Turning back to the flood in 1986, was it raining

at the care during that time period or was it --

A Well, we had rains, but we received the notice.

Really the rivers upstream from us were packing a real whostup. We also had some rains, but it was upriver.

- for much notice did you have?
- the five come up, the couth foch was informing us of rises of eight foct and then near day it was 10 foot and next day it look, no they keep saining the forecast upward as it went, and he hept moving our materials back up higher and higher and nights.
- O Pid you cake inventories of the materials prior to the ribad?
 - A. Ma, air.
-] This there inventories of materials taken after the flood?
- A Mo, wir.

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- Ond you or anybedy else that you know of notice that there were materials missing after the flood?
- A Okty. We moved all our materials up to a high revei. We even suung some materials across on the railroad property to get it up high. The day that the water is at its highest point one of the laborers sweeping out the trailer came in and said I think we lost two drums. It was a little upsetting to me because they weren't supposed to be down

there at the low level, which is on this corner here. He told me, I think we took two drums and I said where. And he waved in this direction somewhere in this corner.

- C This corner being the northwest corner?
- A Tell, of Sumibit A. And he motioned that he enought we lost two drums in that area. We started inmediately --

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- On the part of indication as to what those drums were?
- The thought they were Penn Seal and Metacote or two Renn Scala or two Metacores. It was apparently Metacote or Foun Ceal. I wasn't aware of it. I thought we moved all the material, but of there. We had been doing it the night Lerbro and there wash't supposed to be anything left down where. Nit comments started us looking. We sent safety boats way downstream trying to find out to see if they could ring anything. Secondly, I had my doubts because the water, I could see some steel members sticking up through the water at that time and it looking like the water was maybe a foot to 18 inches deep, and I had my doubts because those drums were either empty to float away in my opinion. And if they were full they would still be setting there. We were out of the channel and whatever wasn't moving that fast. But any way we went off to investigate to find out if it was true or not. I guess, you know, we were looking for some empty

drums. I think they were empty drums and that's the reason -- I won't go theo all that. I'll let you ask your questions. So shead.

- Q That day of the week did the flood occur?
- I den't know. I'd have to go back and look. See the ricod occurred over a period of one day. The flood wath't day one, day two, three, day four. You're talking thout over a weeks period or two weeks period by the time it got up and down. And as I mentioned to you, we kept getting cally from the look and dam that it's going to come up additional two feet more than now. We were at flood stage for juice a white.
 - When did it crest, do you know?
 - A don't.

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- 2 Union Gld your orew get back on the Bate and recognize there was material massing?
- The never quit working. We were working off the liver on barger, no we never quit working. It was the day of the high water. I can tell you that because I came in that morning and I remember that I had to walk tippy toe to get into the office. It was pretty -- you could see it was highest water we had. That was the morning that the laborer called my attention to the fact that he thought there were two drums missing.
 - Q There was water right around the office itself?

A lit was right around the office. We were up out of the water, but it was around the office. We had ground -- we were not flooded, you could walk in.

- O Mould that have been a Friday that it had crested?

 Do you work on Caturdays?
 - A Yel, up there we did.
 - O Did you work on Sundays?
 - A I diu.
 - 6 Anybody else? Was there anybody else on site?
- IN Tury few.
 - no you recurr that Sunday --
- 12 1. 110.

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- 5 -- going out to the site?
- 1/ 70, too many years ago.
 - When was the last inventory of materials taken prior to the flood?

A The inventories of materials would have been what's inside the trailers safety vise, tool belts, that type of thing. That would probably be -- we run one of those every six months, roughly every six months. Inventories of materials on the job site are not done until we need them. If we see we're running short then we review our problems. We don't lose materials to the water because we move the stuff up and out. Our concerns on something like that are like nil.

	Ō	Unen	you	move	the n	nsteria:	is out	from	the	10%	er
Weste	rn þ	ortion	oź t	ne fe	nced	in area	unde	r Ezhi	bit	Λ,	where
were	they	moved	to?	Wert	uhey	noveů	to th	e vest	ern	por	tion
or be	bacy	the f	ence?	>							

- The forceast called for the vater to come up and over the top or chear wall about him inches, we moved it back onto the rotaway. Then the forecast was for it to come up higher and got puts about where she created, or as I remember where it was. And as snat time those naterials were set -- either set on the anguals pare of the ground directly behind the area or swang over to the other side or the railroad tracks.
- Q You had one person you said indicated that there might have been two drums that were missing?
 - A Yes.
- O Did anybody else indicate that there were others materials missing?
- A Po.

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- Q Mo pilings, no wood?
- 20 a 115.
- 21 Q Wo pails, nothing?
- 22 A No.
 - Q No machines, no equipment?
- A No. I remember the incident in particular because 25 we made such an effort the night before to move everything.

And I was upper about the fact, and then when I seen the area that was flooded I had my suspicions. Either they had been moved and he missed it or second they were empty and floated off empty. We still did the search up and down the river styling to line them, but I had a heck of the time that they were even there or either moved before he seen them, or more than lineary empty. That was my decision. He said the drums were missing and that was where my opinion was.

- On the talked a little bit earlier about methylene chloride and trichloroethane, and you indicated they were rocated behind the ordice. You also indicated they were not used for the large although they were purchased at the time with the intent to use them for the site?
 - A That's correct.

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- Q Union was the last time that you saw those drums schind the orince, or that you know that the drums were there?
- A Probably December -- you're asking me -- it would have been in December. They were very close to the office.
 - Q Of what year?
- A '86 or '87, that's when I left they were still there in '87.
 - Q Both drums were Still there and they were marked?
- A I will tell you I'm positive of the one drum. The second drum I'm hazy on because I have trouble recalling that

drum from day onc. But the second one I recall and I recall it being there. We read the warning label on the thing. And it was a combination, one is cleaning tools to spray epoxy was very high cost saborwise, and the second one was we were reconsidering the use of apraying. And when the materials come in and I seen the warning label on it, so we put the materials behind the trailer next to the security box on high ground and dian't intend to use it.

- On the pour country for resale to somebody else?
- The Mark the promisers when I left was to ship it back to our yard here in St. Louis that has the connections and ability to handle those type of materials.
 - O Did that occur?

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- 16 A Treatly don't know. Thave no knowledge of that.
 15 Frestly don't know. Thave no knowledge of that.
 - O Court there have been more than two drums that were lost during that flood, four drums?
 - A Durichely doubtful.
 - MR. SPRONG: I'm going to object. We haven't established that two drums were lost yet.
 - MR. HDRSH: He stated that he had somebody --

HR. SPROHE: You can answer if you want to.

- 23 I'm going to object to that it hasn't been established that
 24 two drums were lost let alone four.
- 25 THE WITHESS: Yes, I'll stick my head out and

as far as any other drums being lost, I think anything is possible. I think it's extremely unlikely.

- Q (By Hr. Hersh) With regard to -- who was the person who stated that he thought two drums were missing?
 - A Daboter that was sweeping up the trailer.
 - You don't recall the name?

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- A Ho, no, I don't. But it got to be the conversation piece around the job site for a while because I was raising some help and it did get a rittle attention.
- Q In face, sen't it true that additional drums of material were ordered after the flood? When I say material, "'m tacking about Penn Scal and Netacote?
- Matterials were ordered after that, I wouldn't be surprised as far as Penn Ceal and Mccacote. Sometime in Pebruary or not Pebruary, but cometime in '86, around that length of time we started checking our quantities of material covered versus open. You're supposed to get so many square feet per gallon and we were running low. And we started checking quantities and we were not getting production. One of the reasons is we were rolling it on instead of spraying it on. You really should talk to someone else about that. I don't have firsthand knowledge. I understand that something else was bought, but I don't know.

O Were there any other spills, leaks of any other materials that may have gone into the river or anywhere else for that matter during the flood period?

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A During the fixed period, I just don't believe it was possible. We work some real extreme care at that time to use that it aren't happen. I don't think so. I'll tell you that anything to possible, but it's unlikely.

- 2 Was a report made with regard to these two drums that were reported to be lost?
- A Thus's a rong time ago. I wouldn't tell you that it wash't or that it was.
- paragraph of the McCarthy response if that refreshes your recollection?
 - A Okey. Someone apparently wrote that down.
- Q Does that refresh your recollection that any records were maintained regarding those drums?
- the file to give you the answer that you have. It shows two closed barrees of Penn Seal, but I was there during that episode. And I'm telling you the fact are that we're not sure we lost them. I think it's extremely doubtful that we did, okay. And if we did, they were probably empty drums or close to being empty, that was my opinion when my attention was called to the problem.

0	What i	e your	understanding	of	tne	meaning	oí
"closed	baircis"?						

- That they are capped. In other words, the plugs have been put back in and seal has been rearfirmed. It may hot be abbouncer Postproof seal, but they are replugged or capped, at type of barrel that has a top on them they get rediambee.
- Do you do that with regard to empty barrels or with regard to basicle that contain materials?
- Me always do that with barrels that contain material. Barrels that are empty should be, but I don't know that enuc's always done.
 - 0Could you describe the barrels please?
- ?.. Which barrels?

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- 15 For the Metacote and Penn Seal?
- 16 They are gray Grume. I can't remember the 17 Metacotc. One was gray and I believe one was black. But that -- again, I'm cure one was gray.
- 19 \mathcal{Q} Were they metal?
- 20 Λ Steel, metal.
- Dad they have distinguishing factors in terms of 22 the way it was constructed?
- 23 Α 110.
- 24 Did it have an unusual number of bungs? Q
- 25 I can't answer that. I never noticed any A

difference in the barrels, but I don't want to tell you that it didn't have.

- Q Do you recall where the bung was for the drum?
- A 110.

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- Do you recall the pine of the drume, were they 30 guilon, or 55 gailon, or some other time?
- A Thereve they were 55 gailon, but that has to be confirmed. I'm pust going to cell you I believe so.
- There they stered in a rack or were they loose, or on passess?
- the Oborea upright, not on a pariet.
- On the ground?
- On the ground, or on the concrete, or on 4 x 4's. Generally, not on the ground.
- 17 A Yea.
- 10 0 Which ones were those?
 - A Those were the gas drums, the oil drums, fuel oil drums, and anything that needed to be disbursed that way were stored in racks.
 - Q Would that include the two drums of solvents located behind the trailer?
 - A No, they were standing upright.
 - O Could that include drums that were located in the

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paint transer?

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A The drums that I've seen in the paint trailer, I looked in it once, they were actting directly on the floor of the trailer.

Onese is a reference in the response by McCarthy Brothers that there is a record of some record regarding the two process purrels. I'm requesting to see what those records are.

HR. SPROUCE In this 13 again.

HR. FERCH: Paragraph 13.

BR. SPRONG: I think that might be -- I think I can clarify this a little bit. It talks about in number two on page two of the response what has been looked to to propage the answers and one of the things are the job site dealy logs the job site invoices.

MR. MERSH: What is referred to by MSDS.

MR. SPROMG: Manufacturer safety data sheets.

I believe when the term is used in 13, that that encompasses

-- that's sort of an all-encompassing term that means by
going back through this daily log. I will have McCarthy look
into that and see if they actually have records, but I
believe that's what it's referring to.

MR. HERSH: To the extent it's beyond the daily logs that I've requested then --

MR. SPRONG: You would be talking about some

sort or diary or inventory?

MR. HERSH: Inventory, diary, computer record, notes, talephone conversations, meeting conversations, whatever records there may be without limitation to what the term record means, which would refer to the two drums.

MR. SPRONG: Okay.

- (By In. Hersh) Moving back to the ilood situation and two drame, you started to indicate that there was an effort to look for those grame?
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- ? Unat admually was done?
- A We sent a safety boat -- from the indication that I could get from the saborer was that they would have been at this corner of the site as we already discussed.
 - C The northwest corner?
- A Right. The vater was not deep enough that if they had failed over that you dould have seen them. I mean you would have seen them if they were laying on their sides. So we sent a safety boat, first of all, if they did float off whether they are empty we sent a safety boat down river. He was gone for an hour and a half trying on find some indication that the drum was lost, trying to find the drum. There was really not much we could do after that.
- Q You were saying that you could see that it was just a few feet deep at the time?

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1	Z	Right.
2	Q	This is after the flood had crested?
3	Α	Yes, or at the crest or right at the crest.
4	Ō	now high is the grade between the northwest
5	utorage u	ea site and the trailer, 10 feet, 15 feet?
-	;	On, no. Naybe 18 inches. The difference in the
-/	elevation	at this corner to the trailer and this corner to
,	the tidel	is is about the same difference. It's about 18
2	indnes hig	ther than the steel pile wall. That's the reason m
.0	comment of	that it couldn't have been more than 18 inches o
1	pernepi et	ch end feet of water as that point.
. 2	Ć.	If there's no objection I'm going to ask Wally to
. 3	aus a les	technical questions.
.4		MR. STRONT: Me objection.
. :	QUESTIONS	BY HR. HIDD:
ار:	Q	You've just stated that now you believe you were
7	there for	the crest of the frood which you previously you
3	dián't kno	ow When it occurred?
	Α	I don't know when it occurred, but during that
0	period of	time I was working seven days a week.
1	Q	But not 24 hours a day?
2	A	Not 24 hours a day.
3	Q	The accord technical question, you were also able

to at the peak crest also observe the current?

Yes.

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- Q And you made it sound like a subjective decision that based on that creat elevation as well as current it could not have moved a full arum?
 - A I didn't pay that.

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- Q Well, that's not directly but indirectly.
- To was my decision or my thinking at that time it was very unitably that there depth of water and the flow of water that I seen by that priticular area would have pushed oil a full dram, 340 pounds or something like that, of material just casen it with it. We still had steel beams that are chunks, change there sticking up out of the water that are chunks, change were stacked up. It was my thought, and it was merely my shought, that it was very unlikely that those drams were full-sized drams would have moved.
- Q Chay. But now clearly you're not stating that you're a hundred percent sure that you did observe the peak manimum crest in that area?
- It would be very easy to call them and check the elevation and where we were at. But when you work the hours that I did and you work from seven to eight o'clock every night and back at the next morning at six, you're not --
 - Q Theoretically it could have crested that night?
 - A Yes, but unlikely.
- Q And you're referring to steel which is entirely different situation as far as resistence to current than a

round 55 gasion drum versus a piece of I-beam?

A That's the reason I had to tell you it's extremely unlikely and not rule out the possibility. Had I felt like it was obsolutely impossible I wouldn't have sent a safety man up and down the river.

O All those lead into my major question and that is to in deed you have a drum, in this case, of a specific gravity of approximately 1.5 in water and that indeed was washed into the river, there is, in my opinion, a very low probability of being successful in locating that on the surface. Do you agree with that, if you have a higher appoint gravity indice a steel drum which is heavier than case?

A Yes.

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- Q And that indeed would not float?
- A Correct.
- O Well, at I look at 13 in writing, you stated -- not you -- but your firm stated yea, full arons were lost?
 - A lt said presumably.
- O I noticed that. I guess what I'm asking -- the last question I'm leading up to, do you believe that that would be an adequate search for a product that does not float on water?
- A Okay. You're asking for some opinions here. Do you want this on the record or do you want to talk outloud.

Q You just gave your opinion on the crest, whether or not you were there. We know all your opinions.

A That's part of my responsibility is in the position I'm in is to make decisions and to make what we hope are good decisions. I thought it was extremely unlikely. Those barrels were supposed to be moved the night before. The particular fact that a laborer tells me that two drums that may have been there at a certain time last night hadn't been moved after he last cooked. The probability in my mind that those drums had been pushed over full with the water from we had was almost nonexistent in my mind. The only way that I felt it could have happened would be if they had been particully empty or empty and it floated downstream did exist. My response then was to send a man looking for floating drums downstream. Because, in my opinion, it really didn't happen. I thought we had either empty drume going downstream or no drums sout.

QUESTIONS BY MR. HERSH:

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Q In rooking at our records, the records indicate that the river crested at 25.3 feet at the Quincy filter plant on October 24th of 1986. You indicated that the sheet wall was approximately 10 feet to 12 feet above, so that means that would have been additional 10 to 15 feet above the sheet wall that the water would have risen at crest?

A 10 or 15 feet above the sheet pile wall our

Q Were you there 24 hours a day or were you there at the creat?

A This was that much above the sheet pile wall, the

2 Was the traiter standing up on brocks?

whole trainer would have been under water.

- A The wheeld were blocked off the ground about an incl..
 - Q And how high is the door, how many steps up?
- A Taree foot from the ground to the floor of the tables.
 - Were there any water marks on the trailer?
- 13 A. Never.

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- O Tan't it true that more than just a laborer, but in fact some of your supervisors had indicated to you that not just two parrels, but six barrels were missing?
 - A No, that's not true.
- O line's it true that two of those barrels that were indicated as missing immediately after the flood were the 111 trychologogounane and the methylene chioride?
- MR. SPROMS: I'll object. He said one person toud him maybe two barrels were missing. He denied the allegations that six barrels were missing.
- 24 MR. HERSH: Your objection is noted.
- 25 IR. SPROUG: And he also answered about the

COMPUTER-AIDED TRANSCRIPTION

trichtoroethane and methylene chloride.

THE WITHESS: No, sir. It's not possible they were washed out, no.

Q (By Hr. Hersh) Did you inform anyone of the missing burrels, did you or anybody on the staff?

A The become a convertation piece in our trailer, as I mentioned callier. I'm sure that everybody that had any supervisory capacity whatever heard about that that day. So, yet, I would sup that everybody that was walking in that office that marning would have heard about that.

Did you contact or did anybody from your staff contact the United States Coast Guard and indicate that materials were missing from the Site?

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Q Did anybody indicate to the state of lllinois that materials were missing from the site?

A They heard the same conversation about the drums as anybody erac that would have warked into the office that morning.

Q And when you say they, who are you referring to specifically?

A I'm referring to the inspectors on site at the Quincy Bayview Bridge.

Q Would that have been with regard to Illinois

Department of Transportation or Illinois EPA or --

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lilinois Department of Transportation.
         Α
               tho was responsible for disposal of waste
         0
    materials from the site?
         Λ
               McCarthy Brothers.
               They particular persona?
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         7.
               110.
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               Uno was responsible for ordering materials for the
    Site?
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               Hypeli and some of the supervisors that we direct
         F_{\alpha}
    to go ahead and take core of the problem or whatever we
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    necded.
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               Who specifically?
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               Generally, it was Chuck Dieders. I very seldom
    ordered anything directly mylerf. Gary Winkle ordered some
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    materials. Another man there by the name of Mike McKay was
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    another one that would order materials, but up until I left
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    everything was bounced off of me.
               Here there beparate tog books kept by those
18
         Ω
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    people?
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               Personal diaries, I don't know if they kept
         ā
21
    personal diaries or not.
22
               Log books for the company?
         0
23
         Α
               No.
24
               Records of other sorts for the company?
         0
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By who?

- O By each of those people ordering materials?
- A Unact port of records? When they place an order, generally, there will be some names. Perhaps if we ordered some after I reft if comebody ordered some more Metacote or Penn Seal or comething time that, generally with the purchase you would exther write a letter stating we need blank, blank, blank, blank and a name will be underneath it to you know who is doing white.
- 3 Were there any claims for incurance funds for marginals for during the flood?
 - had the bet me change that. I don't think so.
- O In billing the Filinoic Department of Transportation for contract costs, did you bill them once at the end as on-going cost items, how was that done?
 - A Honthly items.

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- And you would indicate specifics as to hourly rate, now many people were working, materials purchased, that sort of thing?
- A It's direct contract, hard bid contract. So the values of the materials that went into the structure were already established under bid items. So you would have pre-cast slabs, concrete towers all broke out as separate numbers. And both McCarthy and IDOT would keep of the material and what's a pay item. And they had an agreement at the end of the month. We never quite agreed, but IDOT

usually won the battle.

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- Q Did that contract anticipate specific number of gallons or material such as Metacote and Penn Seal?
 - A T would have to look at it.
- Dach time you ordered materials you would indicate we are ordering a 55 gallon drum of Penn Seal or etc.?
- A Not to them, no. The contract to them would have be epony dover that. It may say so many square feet at a unit price without any other statements. And they wouldn't care if you used 50 drums they would be more concerned how many negate feet would that cover.
- O And from McCarthy's perspective, the square footage coverage, whichever cost you placed on that was reimpursed by Illinois Department of Transportation?
- A We knew how many square feet before we ever started to work. They were only going to pay us for what we did, and that unit was established before we ever showed up as far as physically on the job site.
- Q Were there ever move tickets or invoices for waste haused from the site?
 - A Yes from BFI, There would be tickets from them.
- Q Were there any move tickets or invoices for waste for hazardous waste materials removed from the site?
- A No, sir. I don't want to say that. I'm sorry.
 What I have to tell you I was not there at the end of the

project. In the length of time that I was there, no hazardous materials were moved off the site. The one drum and possibly the second drum that we were concerned about was kept stored alongside of the trailer were my two major concerns. That had to go back when we moved out.

- Q Uhen the liminous Department of Transportation was notified that materials may have been lest from the site, was more anybody in particular that was notified?
- The relicent engineer was Lou Niesas and he had beveras -- four or rive people on his staff. Lou was in and out, there most or the time. I'm sure he knows about the increant. Unerner he was there at the enact time that I went out and started footing for drums, I'm not sure. He was certainly --
- Did you upecirically inform him or did one of your immediate supervisors immediately inform him of the potential for missing drams?
- A Specifically, I know they know of it. Not a meeting as such.
- Q Did anybody contact the National Response Center and indicate that there might be drums of missing materials in the Mississippi?
 - A no.

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Q Was there anybody ease informed?

25 A No one was notified.

- Q Was there any written notification sent to anyone?
- Λ . To.
- Q You indicated that there was a boat looking for drum:?
 - S Yes.
- Those grams?
 - To.
- 9 Were any drume reported back to you as being found that they thought might belong to you?
 - ... °a.

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- 2 Are there any documents that would refresh your recollection with regard to the number of drums that may be missing, that may have been missing, who it may have been reported to, or any of the other issues that I've addressed today?
- Question. There was not sim drums in question. I have never heard that number before up until today. The second, you have my reasoning, which I doubt entremely that they even existed, that it happened at all. There was no reports made to anyone because personally I didn't think it ever happened. We did search the river. We thought we had that obligation to go down and take a look and made sure that we at least done that much. We doubted extremely that any barrels had

-	been lost.	
2	Q	Unon you may we who are you referring to?
3	A	He, Mick Tungate, project manager.
4	ű	Did anybody else share that position?
ξ.	A	I made the final decision on that job.
c	O	Did any of your other supervisors indicate to you
7	that they	thought drums did contain materials?
ε	Σ	"ione.
9	0	Did any other workers, laborers indicate they
10	thought th	ie drums and contain materials?
11	A	That they did contain, that they were full.
12	ũ	That they were full or that they were not empty,
13	that they	had materials in them?
14	t. F.	no.
15	ō	No one indicated to you that the drums did have
15	materia.1	in them?
17	\tilde{n}	The laborer that first indicated this to me
10	thought tr	ncy were full.
19	Q	Did anybody else verify that with this laborer?
20	¥	lio.
21	Q	And you don't recall the name or another way of
22	identifyir	ng this laborer?
23	A	I'm sure I can get his name if I need to get his
24	name.	
25	Q	I would appreciate being informed of his name.

What was his specific duries at the site, this laborer?

A The first person I'm going to give you will be the labor stewars. And his responsibility, of course, normal labor duties. We had him sweep the effice out every morning. The didn't do it every day. So, I'm not positive — more likely is usual be this particular person than anyone else. So we will give you his name and hopefully that will be the proper person. We had quite a few laborers on the job, but this was a person chat normally did that.

Once there any attempts made to verify that drums were actually missing. In other words, did you look at your records and say yes, we had four drums that should have been here, two that have been utilized on the foundation materials and have times been disposed of so we should have two drums out there comewhere?

A Yes.

O And what was your indication from -- what did you do, let me right ask that?

The question was to the person that was actually doing the controlling, the paint work going on up the side of the towers was how many drums do you think you've used out there right now. The answer was I don't think -- I think we used two or three, comething like that. He didn't have a solid handle on it. The review of the amount of drums that we actually had showed that if it was three then he was right

If it was two, then we were missing a drum. It was kind of like piece it together sort of thing. I couldn't get a solid answer. Again, I come back and tell you that the square footage coverage that we were getting led us to a problem area as for as exactly how much. It actually took more to cover that deck of those walls than what we anticipated originally.

Of the record.

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(At this time an off-the-record discussion was had)

- Description as the center portion had been constructed, but the end, had not yet been connected to the banks, is that right?
 - A That's correct.
- Q And to get to that portion you would take the barge out or workers would take the barge out to work on it?
- October of '86 we made the landing on Missouri side first, and then we made landing on the Illinois side following that. And you're near the time that that happened. I believe it was in Movember. I believe this particular time you're talking about we were very close to being on the Illinois side and had made the Missouri connection. We were not in a

condition to drive out from the Illinois side onto the structure, I don't believe that was the case at that time.

- Q When you talk about the bridge landing, that was a specific structure that you had to build to be able to go from the randing to the barge?
 - A The briage landing?
 - The barge landing.

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- The public access ramp was very close. We had a barge that would accept vehicles. It would accept trucks and that type of thing. To deliveries that were possible were put onto barges and haused into the river and hoisted to the acce. Our materials were pretty well were confined to the sheet pile wast that we talked about, the one that was 10 or 12 according to your resords maybe even 15 feet high, whatever. At that point we would lead men up, we had ladder built to get them down to the barge level so they could walk on the barge and be transported out. And we took concrete there and anything that the crane was taking out there.
 - O You had a crane structure within the fence?
- A The cranes were all mounted on barges in this area. The cranes were all mounted on barges and would be pushed into the bank to pick up and with the material barge and pick up whatever they needed and go back out with their material barge attached.
 - O Do the barges, did they tie up to anything when

they came in for the material?

A 90 percent of the time they were attached directly to the crone barge. There were spude -- it's down next to the sheet pire walk. And the other portion of the time sometimes we could leave them at the location if we were at the right apot to see them off. Most of the time they came in they were directly tied. Occasionally we would tie them off to the pank.

- Q This was somewhere in the Mississippi River itself but near the cheet wall?
- A Right. During the hours we weren't working, the barges would with patked out of the channel and generally left as close to the work area as they could be left in the tiver. We came to the bank to pick up the materials perhaps we could get a week's worth of work on one materials barge.
- Q How close to the bank could these material barges get?
- A Very, very close. They could get right up against that sheet pile wall. There were rubber tires there so separation was just that wide.
- Q Was that the method that the workers as well as materials got to the bridge?
 - A Yess.

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Q And during the flood, when waters were going over that sheet wall, that sheet pile wall, how did materials and

workers get to the bridge?

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- A The materials was a problem. I can't recall exactly what nappened. We must have had a lot of materials on the work barge to continue through that particular weather, through that fixed cycle. The man power would be taken to the job -- we would push our small -- we had a very small transport barge we could push up the public access ramp until to landed and they would wark on.
- The song before a material barge would have to be to uppered, would it last a day or two days?
- Depending on what it was doing, it would vary.

 Continity, it would be a week's worth of work. That would be

 12 you had to pick a number, that's what you would say as an

 average, but it could vary from one day to two weeks, but

 generally you would average about a week between trips to the

 bank with the barge.
- Q Would there be any records as to when the barge was resupplied during the flood time period?
 - A I don't think so, not really.

- Q Would that be in the log?
- A Not likely. The log was mostly concerned with construction activity. It doesn't tell you things like building section B on tower leg C. Setting forms at section such and such, painting Netacote or painting Penn Seal, or putting eponies on, or gluing panels together. Those types

of things will be on the log and our problems. Problems that cropped up that particular day if we had a structural problems or engineering problem, if it affected the work it would be in there.

- O So if there was some problem trying to get the brigg in to get some materials that would be indicated in the reg?
- he work activity, not likely. You might get a note in there that says problem with landing barge, but that would be an unlikely situation.
 - O What is the name of the tug or barge company?
- He used our own and we got it from St. Louis Boat -- you need to confirm -- St. Louis -- we got it out here in St. Louis. St. Louis something or another.
 - h ho he wan purchased or leaded?
 - A We reased it.

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- Q Who was the captain for the boat?
- A . A guy by the name of Frank Garriga.
 - Q And do you know where Mr. Garriga can be located?
- A Last I heard of him, he was still in St. Louis not working for us any longer. He's a top flight boat captain or crane operator out of St. Louis. And if he's still here he would be easily found.
- Q Do you have any knowledge as to where the water intake pipe is for the city of Quincy?

	Δ	-	could	teli	you	within	a	hundr ed	feet,	but	Ι	have
a	pretty	gabo	: iūca,	•								

- Q Mould you with this red pen, would it fit onto Emhibit At
- Dut making a stob in the dark. It was out in the water probably 300 rect from the bank and downstream from the public secons area. I'm going say about 300 reet, in that area. Picase don't pin me to the wall on that, but right in unot area.
- O Would you indicate on Exhibit A where you believe the water intake 10?
- A Thin is the river along the bank, I would say about in here.
 - O And write on there water intake city?

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- A City of Quincy. I think they sample their water once a day too, don't they?
- On In looking through the information request, did you have a chance -- I'm sorry strike that -- in the information request, you were fisted as one of the persons that was consulted in providing the answers, did you have a chance to look at the answers that were written prior to being submitted to the US EPA?
- A I first seen this yesterday. I received no other written information or communication.

- Q Have you seen -- since yesterday have you looked through this information request answer?

 A I've read it, yes, I have.
- On reviewing this document, is there anything in the ethat you believe is incorrect or otherwise ought to be continue?
- The Ho. I did not go through -- I was not the person what went through and gathered the data out of the files and information. And actually my connection from this since day ont empet to answer a rew questions has been my first involvement was when I received a notice to be here. So you're getting this without any research or any background from me except for my recall.
- O And you stated earlier that Penn Seal was applied with disperable equipment?
 - A That's true.
 - On a daily basis the equipment was disposed of?
- 18 A Yes.

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In looking through the information request, it appears as if there were extensive — the answer provided by McCartny Brothers, it look as if there is extensive documentation with regard to certain items. Particularly nonhazardous items, the materials that were purchased, specific knowledge that the empty drums were taken to the trash dump, specific inventories as to how much when, where

etc., and yet in other areas there is a great deal of uncertainty particularly with the 111 trychloroethane and the methylene chloride.

MR. SPROMS: I'm going to object to the term undertainty. Could you clarify that. Which part of it is undertain?

HR. HERSH: What happened to it.

No. SPRONG: Certainly not the quantity.

Q (Dy Mr. Herch) What happened to it is the big quadrion?

A confe answer that question.

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O I'm going stop trying to carve my questions. What mappened to these two barreis?

A Town't know. I was not there at the time. I reit the job in December, the job went on because of the winter and grounding of the cables went into late '87, and I was not there. I am going to tell you what happened up to the time I left to my best ability, which was the end of December. I might have been there for the first week in January. I'm not sure, but it was through December for sure. And at that time I know that the trichloroethane in particular that that particular material was five feet from the office trailer just outside my office window and near the security box that we had stashed on that site. We put those over there to keep them high, and the security box to keep it

high and dry because of river fluctuations. And that's where we stored that material. That I know was done through the time that I sefs. I can't answer from that point on.

Q You indicated that certain materials were taken back to the McCarthy Brothers site of McCarthy Brothers Corporation for rease elsewhere?

A . They most of our materials do. And I can only there you that normally any materials that would be received that would be rine a -- whatever that word is trichloroethane and the other hadardous materials like that would be disposed of by our yard who has made arrangements here in St. Louis. That sturf would be shipped for miles to get back in here where they have the connections and know how to get rid of that material.

Q Would the practice be to send it as soon as pollubre to the yard here in St. Louis?

A pot so long at you think there might be a potential use for it. If you had a clean-up situation, if you got a problem where you had a clean-up situation you might be forced into using material like this. That stuff, yes, it would be a very good idea to ship it out immediately, but then if you do have a spill, I'm talking about if messing with your epoxies or spray it on something and wind up having to clean it up. You're going to have to replace with the same type of materials. The stuff that will cut epoxies is

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himited and it's all this type of material that we're talking about. So so long as that operation was ongoing, the smart thing would be to keep it on site rather than do it again.

- O The it common practice to maintain receipts between the yard and a particular site?
 - L. Yes.
 - O For materials that are shipped back and forth?
 - A Yes.

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- Q Are you aware of any receipts or any document that would indicate when that material, the methylene chloride and tryphiologicane, were sent to the yard?
 - No, Tim not.
- O If there is any record of that transfer, I'd like to have a copy of that as Well?
- A It would be a yaid transfer ticket. We make them out on the job sites so there's record going either direction.
 - Q I'd like to go off the record.

(At this time an off-the-record discussion was had)

- Q We have just a few follow-up questions. I'm going to let Warly ask the questions.
- OURSTIONS BY MR. NIED:

Q The first question is I'm sure during your construction phase that there was some surveying of elevations?

The second secon

A Yes.

- Q Do you have any idea, do you have records of those elevations.
 - h Yes.

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- O Particularly the elevation of the trailer?
- A Zer, somewhere we do because I knew what the top of the wall was to the hundredth. I don't know any more, but I remainer that we had it so we could get some bort of idea when the liver level was going to come up to a certain grade to you knew when it was going to hit the top of the wall.

 Where the trailer was, I knew it was about 18 inches higher.
- Q But you do have a surveyed elevation of the top of what hea wall?
 - I Tes somewhere.
- 2 Prom which one could make a scientific accurate measurement of how much water at the crest was above that point?
- A Mc should have originally before we started the project. We had a local surveying company up there perform an survey. So that we made sure everything was right when we started and they established the bench mark. There might not be on the sheet pile.
 - Q There are bench marks associated with the --
 - A Are you familiar with Quincy at all?
- O Yes.

- A That's the only surveying company up there.

 Quality Surveying Company up there, and they established and give up the urawing of the elevations and locations.
- O so you were aware of the accurate surveyed elevations?
 - A You.
 - Of the top of the sea wall?
- A Year ago. They are a little hazy now.
- Q The last question has to do with you had 55 galion drums of Penn Sea, and Hetacote?
 - A F believe that's correct.
- When you went to transfer it from the 55 gallon drum to a smaller container --
- 15 A Yes.

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- Q You did not utilize it out of that 55 gallon drum, what mechanism did you utilize to transfer?
 - h We put a bung on it.
 - Q It had a bung?
- A It had a bung hole. There is a rolling dolly type of lift where you can pitch the drum a little bit set it on this thing and lay it over and lay down it's really just like a rack. We put it on that rotate it over, agitate them and then roll them into position and poke the bung and get what else you needed out of it.

1	Q So you would simply tip it and pour it after it
2	was agitated?
3	A Right.
4	O Pid you agitate through a bung previous?
5	Teu.
ان	Q To pour a full drum, would you think it had a vent
7	bang as we i as a sarger bung?
,	A Fim suic it dia. I'm speculating now, but common
:	practice is.
10	Due as far as a third bung on any of these, you're
11	
12	A To, I can only tell you that I'm very well aware
13	that lone had two bungs on top and come have a side bung.
14	Unether those had side bungs or not I can not tell you. I
15	don't know. They very well could have or not have.
10	Q But side bungs are functional when one uses a rack
17	and instains a home to distribute that product. You never
1.9	used a rack?
15	A Not to my knowledge to take it out of the side
20	bung, no. Not to my knowledge.
21	QUESTIONS BY MR. HERSH:
22	Q A couple of short follow-up questions. When the
23	flood occurred in October of 1986, was the fence left in
24	tact?

Yes.

- Q Wall it destroyed in any area or knocked down in any area?
- A To, I can't really answer that question. There was no major damage to the fence, the cyclone fence on the nouth side of the project, the cyclone fence on the south side project, of course, was absolutely undamaged and along this side here --
 - O This side being the north side?

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- A lt was redwood enow fence across there.
- 2 And there was a fence on the north, south, and cast side: and water on the west side?
- In Pight. We entended our fence out to keep people from getting access from the bank. We entended our fence out 10 inches so you couldn't climb around and get back into the job site.
- Q Were any materials stored outside of the fence during the fisod stage, the 1985 flood stage?
- A fim sure that materials were stored on the other side of the railroad tracks up on the high ground because we were running out of room to keep materials stored in here and still keep it out of the vater. So we wound out swinging a lot of material up and out of here to the other side of the railroad track. It was a difficult job. There was power line feed in this way, and it was a tough job, but we stored a lot of material over there.

Ω Anywhere eise?

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A There was nothing on this side.

- Q This side being the south side?
- A Yes, the public access ramp is right there and on this side --
 - O hat the record replect that's the north side.
- A ... Reflect the north side. There was really no room to score anything out there because it would have been under water by a loc. We're talking about a drop off there that would probably be -- again, you'll have to bear with me that I make a unot at about a 10 foot drop to the existing ground grade and another two foot drop to the water, and you would have been under water there 10 or 12 feet. We very well may have refer things like rections of W-beam that we could equeeze in over there and that type of material, but outside of that I leadly, we did have some material out there I'm cure.
 - Q Did the frood water get up to rock roadway?
- A Yes, they did. There was a ditch on either side of the rock roadway and water was in the ditches and a couple upots across the roadway, but it's not level.
 - Q Was there a flow of water or standing water?
 - A It was like standing water, but it was there.
- Q Were barges still going up and down or other boats and materials going up and down the Mississippi river during

this flood?

A Mo, there were none.

- Q done at all except for --
- They couldn't until they reached certain stage because they were too high to get under our bridge. May be I better quality, the big barges couldn't pass and they were withheld counctream. I don't believe there was any barges, but that's a comment I'm not for oure myself. There might be comething small once got under there.
- 2 Which side of the bridge did McCarthy unload their barges on?
- 12 L SS.S percent of the work was done on the Illinois
 13 side.
 - 2 You were saying that you didn't think during the flood stage that the barge could pass under?
- 10 A Right.

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- 17 Q The barge had to travel north to get to the lo bridge?
- 19 A You mean our barge?
- 20 Q Yec.
- 21 A T thought you would talking tow traffic.
- 22 Q Your barge?
- A Our barge could get underneath it. We had a small construction barge. It could make it underneath it fine.

 Cranes and that type equipment could make it underneath

and the second second second and the second second

there. Whethe, we moved cranes underneath the bridge to the opposite side I don't know. Our work activities were generally within 200 feet north of our structure and 200 feet south or the structure and our cranes could reach across the structure if they had to and cables weren't in the way. So

- O Did the barge traffic cause waves?
- A Tel, it die.
- O Sange waves?

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- A Are you talking about big tow traffic.
- 11 ? During the flood time?
 - A My parges didn't, no. And there were very few other barges coming upstream if at air. That all I can terr you.
 - O When you observed the commercial tow barges how high were the waves?
 - The big ones would throw up a pretty good wave and they would octually even -- you could feel it if you were on the crane barge, you could feel material barge, you would teel it move. But they wouldn't set there and bounce. Our little safety boats would be trying to run like hell to get out of the way. But the big ones would cause a movement.
 - Q If you were looking at the sheet metal wall or sheet pile wall, how high up would the wave hit, would it be a difference of two feet, three, four feet?

A no normally it would just about maybe eight or 10 inch wave, by the time it got that far out of the channel it would cettle down, but I can't recall a wave hitting the likest pile wall that was more than a foot high. I would rather bay eight inches.

Q Dury. Do you have anything.

CROSS DUMMINATION

QUEST ONE BY MR. SPRONG:

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- Q . just have a real things to put on the record. To the pest of your knowledge, water never reached the trailer?

 A st never resense the trailer through December of 1986.
- Q And you never heard anyone say that the water reached the traiser or that the trailer was under water, or that any water --
- A Mo, T was there full-time. No, it didn't happen and nobody said that, no.
- Q Okay. And how could you see the current from your stage decks, the river current?
 - A From the office trailer?
 - Q Prom the general Emhibit A?
- A Yes, the river except for the trailers that we had parked here. If you walked past the trailers the river was wide open you could see it a long distance upstream and downstream.

]	Q How far out would you say the current or channel
2	was?
3	A Again, I have to speculate, but if my memory
4	serves it was about 500, 400, 300 feet. It was pretty far
5	out before you got to the actual channel. The river makes a
G	bend and they had to twing a little closer than normal.
7	MR. HERSH: Which way does it bend, towards
i	illimore or towards Missouri mide?
=	THE WITHESS: If you say that it comes towards
10	the it's coming down in straight them it will hook to the
11	Underta Ande pecause almost to the Illinois side and then
12	nooks and heads back across stream.
10	MR. MYED: The outside of the curve is on the
14	Tudinoid bida?
15	THE UTTHESS: The outside of the curve is on
10	the Truinoid Side.
17	MR. SPROMG: I have nothing further.
10	DIRECT EXAMINATION
19	QUECTIONS BY MR. MERSH:
20	Q In there a current that occurs from Quincy Bay
21	during flood stage?
22	A I'm not that kind of river expert. The current is
23	about three miles an hour. You mean an undertow type of
24	situation?
25	Q Does the current pick up in a flood?

A Tim sure it picks up slightly, but you need to talk to Corps of Engineers or somebody. I think it's three to five miles an hour. It might go up to five.

O I think we're done. It is my understanding that you will be receiving the original, you can review it, indicate the changes that are appropriate, your attorney will help you with that, and submit that as the final copy.

A Omay.

and the second second

O Thank you for coming.

(STAINTURE OF WITHESS NOT WAIVED BY CONSENT OF COUNSEL AND

AGREEMENT OF WITHESS)

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	PERRY REPORTING SERVICE
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G	NICHOLAS TUNGATE
7	Subscribed and sworn before me on the
3	day of, 1990.
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12	Notary Public
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COUNTY OF ST. LOUIS) STATE OF MISSOURI

and the second s

I, Jeanne II. Horgan, a Certified Shorthand Reporter and Notary Public, within and for the County of St. Louis, State of Missouri, do certify that pursuant to agreement there came before me at the offices of Federal Courthouse, in the City of St. Bours, State of Missouri, RICHOLAS TUNGATE, a without or lawful age, being first duly sworn to testify the whose truth of his anowledge, touching the matters in concroverly herein that he was examined and his examination was reduced to shorthand by me on that day, between the hours we the place and in that behalf first aforesaid and later transcribed into typewriting, that signature of witness was waived by concent of counsel and agreement of witness and his deposition is now herewith returned.

IN WITHDES WHEREOF, I have hereunto set my hand and scal this the ______ day of ______, 1990.

My commission empires August 2, 1992.

Notary Public

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